

## ABSTRACT

A substrate (1) for spatially selective micron and nanometer scale deposition and/or  
5 reaction, which has a support (3), a conductive layer (5) on the support, a dielectric  
layer (7) to hold an electrostatic charge pattern such as a photoconductive layer of a  
material which dissipates an electric charge upon receiving incident radiation  
thereon, and a chemically functional layer (9), such that electrostatic charge patterns  
may be formed in a predetermined manner upon the substrate to influence the  
10 movement of charged droplets in an emulsion (15) on the substrate. The chemically  
functional layer either provides a surface for chemical functionalisation of the  
substrate or prevents access or reaction to the dielectric or photoconductive layer.